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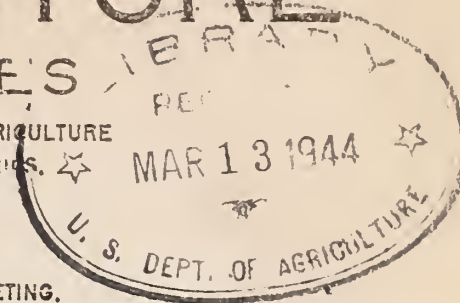


# COTTON LITERATURE

## SELECTED REFERENCES

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COMPILED BY EMILY L. DAY, LIBRARY SPECIALIST IN COTTON MARKETING,  
BUREAU OF AGRICULTURAL ECONOMICS, WASHINGTON, D. C.



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COTTON LITERATURE is compiled mainly from material received in the Library of the U. S. Department of Agriculture.

Copies of the publications listed herein can not be supplied by the Department except in the case of publications expressly designated as issued by the U. S. Department of Agriculture. Books, pamphlets, and periodicals mentioned may ordinarily be obtained from their respective publishers or from the Secretary of the issuing organization. Many of them are available for consultation in public or other libraries.



PRODUCTIONGeneral

India. Punjab. Dept. of agriculture. Report for the year ending 30th June 1930. Lahore, 1931. 79p.

Cotton research: p.6-11 (and in other sections.)

Pests of cotton: p.55-56. In the case of pink bollworm research no pink bollworm was found in seed at 15° C., but several at 20-30° C. At a temperature higher than 45° C. the number of eggs laid gradually decreased.

Tashkent. Nauchno-issledovatel'skii institut po khlopkovodstvu. Proceedings of the All-union scientific research institute of cotton culture and industry... 1931. Tashkent, 1931.

In Russian.

The following are included: No.37. Effects of nitric fertilizers on cotton under conditions of an experiment of vegetation, by D.A.Sabinin, G.A.Bagdasarianz, G.D.Panfilova, and M.I.Popoff (Summary in English).-No.38. Methods of determining the percentage of infection of the cotton plant by injurious insects and other pests by the row sowing, by V.V.Jakhontov (Summary in English).-No.41. Density of spacing of seedlings of Egyptian cotton and density of sowing of Egyptian and American cotton in the ground, by D.N. Samarkin (Summary in English).-No.44. Analysis of the organization of processing in cotton economics under tendency to monoculture, by Z.M.Ermolova and M.P. Nazarjan (Conclusion in English).

Botany

Berkley, Earl E. Studies of the effects of different lengths of day, with variations in temperature, on vegetative growth and reproduction in cotton. Annals of the Missouri Botanical Garden, v.18, no.4, Nov.1931, p.573-601. illus. (Published at St.Louis, Mo.)

Bibliography: p.599-601.

"Although the cotton plant may produce fruits more readily with a specified day length, thus being classed as a medium-day plant, one is led to believe from the ...data that temperature differences may be substituted for day lengths in certain combinations."

Hannay, A.M., comp. The influence of weather on crops: 1900-1930. A selected and annotated bibliography. Washington, 1931. 246p. (U.S.Dept. of agriculture. Misc.publication No.118)

For references on cotton see the index.

Mosséri, Victor. Le développement du fruit et la formation des réserves chez le cotonnier et les végétaux en général. Institute d'Égypte Bulletin, v.13, 1931, p.1-14. (Published at Cairo, Egypt)

Bibliographie: p.13-14.

The development of the fruit and the formation of reserves in cotton and plants in general.

### Genetics

Cotton council makes variety study. Finds Oklahoma Triumph 44 and Acala stand at the head of list. Oklahoma Cotton Grower, v.34, no.4, Dec.25,1931, p.1. (Published at Oklahoma City, Okla.)

Report of meeting of a committee of the Oklahoma Cotton Council on December 12,1931.

Fikry, M.A. Natural crossing in cotton. Cairo, 1931. 23p. tables. (Royal Agricultural Society of Egypt, Technical Section, Bul.18)

Bibliography: p.23.

### Agronomy

Chilcott, E.C. The relations between crop yields and precipitation in the Great Plains area. Supplement I--Crop rotations and tillage methods. Washington, 1931. 164p. tables. (U.S.Dept. of agriculture. Misc.circular.No.81)

Crop rotations included cotton at the field stations at Woodward, Okla., Tucumcari, N.M., Lawton, Okla., and Big Spring, Tex. Detailed crop yields are given.

Cumings, G.A., and others. Progress report on mechanical application of fertilizers to cotton in South Carolina,1930. Washington, Govt.print.off.,1931. 32p. illus. tables. (U.S.Dept. of agriculture. Circ.No.192)

Grigor'ev, S.F. Cotton and its culture. Tashkent, Izd.Atbel GXK, 1930. 58p.

In Russian.

"Spisok literatury": p.[59]



Koliasev, F.E. Measures to increase the productivity of cotton in Central Asia. Tashkent, Izd.Nikki, 1930. 27p.

In Russian.

Maugini, A. La coltura del cotone nelle colonie italiane. Rassegna Economica della Colonie, v.19, no. 7/8, July/Aug.1931, p.788-803. (Published by Ministero delle Colonie, Rome, Italy)

The cultivation of cotton in the Italian colonies.

Ward, A.L. Planting delinted cottonseed profitable; insures good stand...reduces production costs. Cotton and Cotton Oil News, v.32, no.51, Dec.19, 1931, p.1,12. (Published at 3116-18 Commerce St., Dallas, Tex.)

Wellcome tropical research laboratories, Khartoum.

Report of the government chemist for the year 1930. [Khartoum,1931] 32p. (Chemical section. Publication no.63)

Nitrogen estimation in the soil and in the cotton plant tissue: p.16-18. Describes experiments under way.

Moisture content of land under cotton: p.18-26.

"The practical inference to be drawn from the soil moisture contents of samples taken from 24 cotton plots is that as more frequent waterings are needed by impermeable soil in which salts occur near the surface, so in permeable soil where salts lie deeper the frequency of watering can probably be reduced without injury to the cotton crop and with benefit to the soil."-Textile Institute, Journal, v.22, no.10, Oct.1931,p.A466.

### Diseases

Ezekiel, Walter N., and Taubenhaus, J.J. A disease of young cotton plants caused by *Sclerotium rolfsii*. Phytopathology, v.21, no.12, Dec.1931, p. 1191-1194. (Published by American Phytopathological Society, Cor.Lime and Green Streets, Lancaster, Pa.)

Contribution from Texas Agricultural Experiment Station, Technical Series, no.156.

Ezekiel, Walter N., Neal, D.C., Dawson, Paul R., and Reynolds, E.B. Report of the fourth annual cotton-root-rot conference. *Phytopathology*, v.21, no.10, Oct.1931, p.957-964. (Published by the American Phytopathological Society, Cor. Lime and Green Streets, Lancaster, Pa.)

Literature cited: p.964.

"The fourth annual conference of workers who are engaged in the study of the cotton root rot caused by Phymatotrichum omnivorum (Shear) Duggar was held at College Station, Texas, on January 19 and 20, 1931."

Reports of experimental work are summarized.

Stoughton, R.H. The influence of environmental conditions on the development of the angular leaf-spot disease of cotton. III. The influence of air temperature on infection. *Annals of Applied Biology*, v.18, no.11, Nov.1931, p.524-534. illus. (Published at London, England)

### Insects

Moreland, R.W., and Bibby, F.F. Field tests in Texas of insecticides for control of the cotton bollworm (*Heliothis obsoleta* Fab.) *Journal of Economic Entomology*, v.24, no.6, Dec.1931, p.1173-1181. (Published at Geneva, N.Y.)

Risbec, Jean. Un pentatome parasite de la chenille epineuse du cotonnier (*Earias huegeli*) Note...presentée par M.Joubin. *Paris Academie des Sciences, Comptes Rendus*, v.193, no.4, July 27, 1931, p.247-250. (Published by Gauthier-Villars et Cie, Quai des Grands-Augustins, 55, Paris, France)

A pentatome parasite of the spinose caterpillar of cotton (*Earias huegeli*).

U.S.Dept. of agriculture. Bureau of entomology. Report of the chief...1931. Washington, 1931. 87p. Cotton insects: p.44-50. Includes reports on boll weevil, *Thurberia* weevil, cotton flea hopper, pink bollworm, bollworm, and cotton leaf perforator.



### Farm Engineering

Pickett, John E. Cutting farm costs with machines. Pacific Rural Press, v.122, no.24, Dec.12,1931, p.550. (Published at 560 Howard St., San Francisco, Calif.)

Among other machines a mechanical cotton picker is described which is known as the Gyracotn.

Smith, H.P. Cotton harvesters. Better Crops with Plant Food, v.17, no.5, Dec.-Jan.1931-32, p.21-23, 41-42. illus. (Published at 19 West 44th St., New York, N.Y.)

Describes experiments with harvesting machinery at agricultural experiment stations in Texas. Illustration shows type of plant being developed for mechanical harvesting.

### Cotton Land Resources

Stauber, B.R. The farm real estate situation, 1930-31. Washington, Govt.print.off., 1931. 67p. charts. (U.S.Dept. of agriculture. Circ. No.209)

Severe declines in values in the south central states--cotton prices and drought reduce incomes: p.31-34.

### Cooperation in Production

Caulifield, John H. One-variety cotton communities. Manufacturers Record, v.100, no.24, Dec.10,1931, p.31. (Published at Commerce and Water Sts., Baltimore, Md.)

Comment on the work of the U.S.Department of Agriculture.

Stufflebeme, B.A. Cooperation is urgently needed. Acco Press, v.9, no.12, Dec.1931, p.6-8. illus. (Published by Anderson, Clayton and Co., Houston, Tex.)

Urges cooperation of banker, local cotton buyer, and farmer to improve the quality of cotton produced in the southwestern states.

PREPARATIONGinning

Doane, D.Howard. Factors affecting grades of cotton. Agricultural Engineering, v.12, no.12, Dec. 1931, p.438. (Published by the American Society of Agricultural Engineers, Saint Joseph, Mich.)

"During the past three years the Doane Agricultural Service, with the cooperation of the Mississippi Agricultural Experiment Station and the Delta Laboratory of the U.S.D.A., has been studying factors affecting grades of cotton. Most of the work was conducted on or with cotton produced on the Robertshaw Plantation, Heathman, Mississippi, which is managed by the Doane Agricultural Service.

"Field and gin practices including picking, harvesting, cleaning and drying, were studied in their relation to their influence on grading of the cotton produced, and on general farm management methods."

The conclusions reached are listed.

Baling

Crosby, Henry T. Another important cotton need. Texas Weekly, v.7, no.48, Nov.28, 1931, p.7-8. (Published at 2500 McKinney Ave., Dallas, Tex.)

The author "points out that a better system of bale-identification would be of immense value to Texas. The present system is entirely ineffective."

Also in Southern Textile Bulletin, v.41, no.15, Dec.10, 1931, p.6-7.

## MARKETING

### General

Gt. Britain. Dept. of overseas trade. Economic conditions in Egypt, July, 1931. Report by R.M. A.E. Turner assisted by L.B.S. Larkins. London, H.M. Stationery Office, 1931. 137p.

Partial contents: Policy for improvement of the cotton market: p.29-31; Textiles (imports of cotton piece goods and cotton waste): p.47-51, 108-114.

Mehta, Chunilal, & co. Indian cotton review for the season 1930-31. Bombay, 1931. 37p.

Includes statistics of acreage, yield, production, cotton pressed in each State, movement, stocks, prices, exports and consumption.

Moulton, Elma S. Cotton and the manufacturers. Southern Textile Bulletin, v.41, no.13, Nov.26, 1931, p.6-7, 27. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte, N.C.)

"A recent study made by the United States Department of Commerce of the cotton industry of the Gulf Southwest...delineates cotton production districts for that area, and describes the general type of cotton produced in each district."

Movement of cotton shipments in this area and farm income from lint cotton are also given.

New York cotton exchange. Cotton year book, 1931. [New York, cl931] 216p. tables. diagrs.

"This is the fourth year book issued by the New York Cotton Exchange. It contains practically all of the series of statistics given in the third year book, extended to cover the 1930-31 season, and additional data. Many of the tables have been rearranged...Basic Data Service consists of a loose-leaf edition of this Year Book."

New York cotton exchange service. Basic data, 1931-1932. Prepared under the direction of Alston H. Garside. New York, [cl931] 216p. charts, tables. loose-leaf.

Contains review of the 1930-31 season and statistics of the cotton industry.



Production, carryover, consumption, and price, American cotton, 1920-21 to 1931-32. Current Farm Economics, Ser.49, v.4, no.6, Dec.1931, 20p. (Published by Oklahoma Agricultural Experiment Station, Stillwater, Okla.)

U.S.Dept. of agriculture. Bureau of agricultural economics. The agricultural outlook for the southern states, 1931-32. Washington, Govt. print.off., 1931. 56p. (U.S.Dept. of agriculture. Miscellaneous publication.No.137)

Adopted at the Southern Outlook Conference, Memphis, Tenn., November 10-13, 1931.

Cotton: p.6-12.

Cotton seed: p.12-14.

#### Demand and Competition

America's surplus cotton. Living Age, v.341, no. 4381, Oct.1931, p.183-184. (Published at 253 Broadway, New York, N.Y.)

"Under the title, 'Capitalism in Delirium,' Fred Henderson of the Independent Labor Party of Great Britain discusses the dilemma of the American cotton growers and attributes their ills to 'the system of individual effort'--we are quoting Mr.Otto H. Kahn's recent definition,--'incentive, and free enterprise incorrectly and somewhat unfortunately termed capitalism.'"

Ballagh, Thomas C. Argentine imports of unbleached and bleached cloth. Although the United States shipped 3,721,000 square yards of unbleached and 4,193,000 of bleached cotton cloth to Argentina in 1929, its share represented only 14 and 6 per cent, respectively, of the total Argentine importation of these lines in that year. Commerce Reports, no.46, Nov.16, 1931, p.381-384. (Published by U.S. Bureau of Foreign and Domestic Commerce, Department of Commerce, Washington, D.C.)

Burges, Austin E. Why not cotton bagging instead of jute? Cotton and Cotton Oil News, v.32, no.50, Dec.12, 1931, p.7. (Published at 3116-18 Commerce St., Dallas, Tex.)

"To summarize, two things ordinarily cause Amer-

ican cotton to be wrapped in jute. The first of these is the lower price of jute bagging and the second is the prevailing practice of taring American cotton on the supposition that it is wrapped in jute."

Carraway, R.S. Are cotton bags being "pushed"? Bags, v.3, no.8, Nov.1931, p.5, 9. illus. (Published by Atlas Publishing Co., Inc., 150 Lafayette St., New York, N.Y.)

Mentions new uses of cotton bags.

Cobb, C.A. What about the cotton situation? Progressive Farmer and Southern Ruralist (Georgia-Alabama ed.), v.46, no.23, Dec.1-14, 1931, p.699A. (Published by Progressive Farmer-Ruralist Co., Birmingham, Ala.)

An analysis of the situation with reference to the quality of cotton wanted by the mills.

The drive for cotton bagging. Valley Farmer and South Texas Grower, v.5, no.5, Dec.5,1931, p.3,5. (Published at Mercedes, Tex.)

Discusses present method of packaging and covering American cotton, some defects in the present method, deductions made for tare, State laws and cotton exchange rules regarding tare, importance of selling cotton net weight and advantage of using cotton bagging.

The economics of modern yarn and cloth production. Pt.I-High draft spinning. Textile Weekly, v.8, no.194, Nov.20, 1931, p.317-318, 320-321. tables. (Published at 49, Deansgate, Manchester, England)

Discusses cost of using labor-saving machinery.

Ellinger, Barnard. The world textile crisis. How will the new producing countries emerge? Textile Weekly, v.8, no.195, Nov.27,1931, p.344-345. tables. (Published at 49, Deansgate, Manchester, England)

Review of book by Professor Wagemann published by the Berlin Institute of Konjunkturforschung.

Hines, Walker D. Textile industry and the anti-trust laws. Southern Textile Bulletin, v.41, no.16, Dec. 17,1931, p.5,8-9. (Published by Clark Publishing

Co., 18 West Fourth St., Charlotte, N.C.)

To be continued.

Address at the National Conference on the Relation of Law and Business before the School of Law and the School of Commerce, Accounts and Finance of New York University.

India.Bengal.Chamber of commerce. Report...1930. Calcutta, 1931. 555p. tables.

V.2.Documents and correspondence: Contains discussion of the meaning of terms used in the Cotton Textile Industry (Protection)Act, 1930: p.170-177; classification of cotton piece goods and twist and yarn: p.474-480.

"Appendices" contain statistics of exports and imports of cotton manufactures.

Jewkes, John, and Winterbottom,A. Unrecorded unemployment in the cotton industry. Economic Journal, v.41, no.164, Dec.1931, p.639-646. (Published by the Royal Economic Society, 9, Adelphi Terrace. Strand, London, W.C.2,England)

"It has long been recognized that some unemployment in the cotton industry is not revealed by the monthly unemployment statistics compiled by the Ministry of Labour and that the defects in the measuring rod are due to the prevalence of short-time working." This article embodies the result of an inquiry into the importance of this unrecorded unemployment.

Also in Textile Manufacturer, v.57, no.684, Dec. 1931, p.435-436.

Joshi, B.B. The effect of automatic looms on Indian cotton mills. Indian Textile Journal, v.42, no. 493, Oct.1931, p.25-26. (Published at Military Square, Medows St., Fort, Bombay, India)

The author qualifies the Tariff Board's statement that "the automatic looms in India would be uneconomical" by adding that "No doubt the automatic looms would be uneconomical if maximum number of looms to a weaver are not adopted improving all other conditions regarding the quality of the yarn and the scientific and efficient management."



Lowering Lancashire's production costs. Criticism of the Ellinger scheme. Textile Weekly, v.8, no.193, Nov.13, 1931, p.275. (Published at 49, Deansgate, Manchester, England)

Martin, H.D. How to relieve the present cotton manufacturing depression. Textile Colorist, v.53, no. 636, Dec.1931, p.847-848. (Published at Woolworth Bldg., 233 Broadway, New York, N.Y.)

1931 witnessed mobilization of world-wide forces to expand markets for cotton. Southern Textile Bulletin, v.41, no.17, Dec.24,1931, p.5, 23. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte, N.C.)

George A. Sloan cites many instances "to show that vigorous efforts in the United States to stimulate increased demand for cotton has given a new impetus abroad and particularly in Europe to this type of work."

Rice, George. Manufacture of cotton linings for the packaging industry. No.1.Both flat and pile fabrics used. Textile American, v.56, no.6, Dec.1931, p.21-22. diagrs. (Published at 440-442 Old South Bldg., Boston, Mass.)

To be continued.

Describes the use of cotton velvet for lining gift boxes.

Robinson, Hugh L. Education in the British textile industry. Pt.I.A brief review of the present position. Textile Weekly, v.8, no.193, Nov.13, 1931, p.272-273. (Published at 49, Deansgate, Manchester, England)

To be continued.

Trading conditions in China. Severity of the anti-Japanese boycott. Textile Weekly, v.8, no.193, Nov.13,1931, p.274. (Published at 49, Deansgate, Manchester, England)

23% of cotton spindleage will set pace for the obsolescent remainder. Textile World, v.80, no.24, Dec.12,1931, p.2260-2261. table. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

"The conclusion reached in the following study is arrived at by a process of reasoning which,

while not destined to produce a result correct within a minute numerical tolerance, is, we feel, so sound as to reflect accurately the fundamental facts.--Editor."

Wages and hours of labor in the dyeing and finishing of textiles, 1930. Washington, Govt.print.off., 1931. 30p. tables. (U.S.Dept. of labor. Bureau of labor statistics. Bul.No.537)

"This bulletin presents 1930 wage figures for 21,482 wage earners of 109 representative plants that were engaged primarily in dyeing and finishing cotton goods in Connecticut, Massachusetts, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, and South Carolina."

Woods, Sam E. Czechoslovak production and foreign trade in cotton yarn. Commerce Reports, no.46, Nov.16,1931, p.384. (Published by U.S.Bureau of Foreign and Domestic Commerce, Department of Commerce, Washington, D.C.)

### Supply and Movement

Ferrara, A. Les industries agricoles européennes en Somalie. Revue Internationale des Produits Coloniaux, v.6, no.71, Nov.1931, p.627-637. (Published at 97,Rue Saint-Lazare, Paris,France)  
European agricultural industries in Somaliland.  
Cotton: p.628-630.

Mazzocchi-Alemanni, N. Standardisation de certains produits de l'Afrique orientale italienne. Coton et bananes. Revue Internationale des Produits Coloniaux, v.6, no.71, Nov.1931, p.621-626. (Published at 97, Rue Saint-Lazare, Paris, France)

Standardization of certain products of Italian East Africa. Cotton and bananas.

Production of cotton of a uniform type is urged.

Resolutions adopted at Southern Cotton conference, Jackson, Miss., Nov.22, 1931. Mississippi Market Bulletin, v.26 (n.s.v.3), no.23, Dec.1, 1931, p.1. (Published by the Mississippi Department of Agriculture, Jackson, Miss.)

Resolutions urge fifty per cent reduction in cotton acreage.

U.S. Dept. of commerce. Bureau of the census. Cotton production and distribution, season of 1930-31. Washington, Govt. print. off., 1931. 74p. tables. (Bul. 168)

"This bulletin summarizes for the past season the reports of cotton ginned from the crop of 1930 to 12 specified dates during the ginning period; the monthly reports of cotton consumed, imported, exported, and on hand; the monthly reports of the number of cotton-spinning spindles and active spindle hours; and the monthly reports of cottonseed received, crushed and held at the oil mills and cottonseed products, including refined cotton oil, manufactured, shipped out and on hand."

Waller, J.L. The overland movement of cotton, 1866-1886. Southwestern Historical Quarterly, v.35, no. 2, Oct. 1931, p.137-145. tables. (Published by Texas State Historical Ass'n, Austin, Tex.)

"'Overland movement' of cotton refers to that part of the cotton that passed direct from concentration points in the cotton-belt to manufactories in the North and East, or to northern points for export."

### Prices

La baisse du coton et l'échec du Federal Farm Board. Journal des Debats, v.38, no.1957, Aug.28, 1931, p.340-341. (Published at 17, Rue des Prêtres-Saint-Germain-l'Auxerrois, Paris, France)

The decline of cotton and the checking of the Federal Farm Board.

Barr, G.W. Cotton prices. Relation between prices paid in Salt River Valley and central market quotations. Arizona Producer, v.10, no.19, Dec.15, 1931, p.4. (Published at Phoenix, Ariz.)

Todd, John A. British cotton trade off the gold standard check to American cotton. Cotton Trade Journal, v.11, no.51, Dec.12, 1931, p.4. (Published at New Orleans, La.)

"So far therefore the only apparent effects are that England has had a remarkable revival of trade, largely at the expense of the Continent and Japan, while Egypt and India, as well as the other Empire



countries which are of course also on sterling, are now getting much better prices for their cotton. America has so far apparently not felt the draught at all."

U.S.Dept. of commerce. Bureau of foreign and domestic commerce, Textile division. Comparisons of international cotton grey cloth prices. Washington, 1931. 4p. tables. mimeographed. (Bul.59-G--Textile division)

Also in International Cotton Bulletin, v.10, no.37, Oct.-Nov.1931, p.122-125. tables.

#### Marketing and Handling Methods and Practices

Bühler, Theodor. Baumwolle auf zeit. Nurnberg, Verlag der Hochschulbuchhandlung Krische & co., 1931. 122p.

"This work on 'the Principles of Future Trading in the Cotton Industry' appears as a second and enlarged edition of the pamphlet 'Das Baumwolltermingeschaft,' which has, since its publication in 1928, been regarded as one of the most authoritative expositions of the subject from the German standpoint."--Textile Institute, Journal, v.22, no.10, Oct.1931, p.162.

Burr, C.H. Hedging profits and losses confused with operating profits and losses. Hedge immediately fixes price and fluctuations will have no effect. Cotton Digest, v.4, no.8, Dec.5, 1931, p.6. (Published at Houston, Tex.)

Dorton, R.E. Importance of hedging in cotton transactions. Bankers Magazine, v.123, no.4, Oct.1931, p.449-453. (Published at 465 Main St., Cambridge, Mass.)

Financing of cotton from farmer to consumer predicated on proper hedge being maintained at all times.

#### Services and Facilities

Wood, R.G. Liverpool cotton association. Tropical Agriculture, v.8, no.12, Dec.1931, p.325-326. (Published by the Imperial College of Tropical Agriculture, St. Augustine, Trinidad, B.W.I.)

Description of the Association's organization and methods.

## Cooperation in Marketing

Eubank, Claude. Figures of handling charges taken from recent cooperative settlements. Cotton Trade Journal, v.11, no.50, Dec.5, 1931, p.4. (Published at New Orleans, La.)

"Account settlements received by farmers of this state for the Georgia Cotton Cooperative Association."

The Farm Board's cotton and wheat. Commerce and Finance, v.20, no.48, Dec.2, 1931, p.1747-1748. (Published by Theo.H.Price Publishing Corp., 95 Broad St., New York, N.Y.)

Summary of testimony at hearings before Senate Committee on Agriculture and Forestry, week of Nov.23, 1931.

Garrow, J.W. Not opposed to cooperative marketing; the trade strongly attacks Farm board. Cotton Trade Journal, v.11, no.49, Nov.28, 1931, p.4,5. (Published at New Orleans, La.)

Address in behalf of the American Cotton Shippers' Association before the Senate Committee on Agriculture.

Also in Cotton and Cotton Oil News, v.32, no.48, Nov.28, 1931, p.1-3, 7.

Also in Acco Press, v.9, no.12, Dec.1931, p.9-14.

Moser, C.O. Cooperative cotton marketing. Extension Service Review, v.2, no.11, Nov.1931, p.165. (Published by the Extension Service, U.S.Department of Agriculture, Washington, D.C.)

## UTILIZATION

### Fiber, Yarn and Fabric Quality

Ansel, O., and Wong, S.S. Raw cotton of different origin and quality and its behaviour during nitration. Lingnan Science Journal, v.8, Dec. 1929, p.587-592. (Published by Lingnan University, Canton, China)

Ningpo cotton, Cantonese cotton, cotton rags, and linters for gun cotton are compared as to behaviour during nitration and as to price.

Bachmann, W. Über die luftdurchgangigkeit von kleiderstoffen bei verschiedener stoffdicke und bei ver-

schiedener strömungsgeschwindigkeit der luft. Archiv für Hygiene und Bakteriologie v.105, no.4, Jan.1931, p.181-201. (Published by R.Oldenbourg, Berlin, Germ ny)

Clothing materials--permeability to air.

"In the experiments described, the fabric was stretched across a metal ring of area 6.59 sq.cm. and inserted into a tube into which air from the room, at average relative humidity, was driven by a rotary fan. The rate of the current and the volume passing the fabric per second were measured. The results for 13 materials ranging from 0.45 mm. to 4.64 mm. in thickness are tabulated and graphed. It is found that air penetration decreases as velocity increases. For example, with a current of 1.8 c.c. per sec. a sample of washed and ironed linen allowed 99.6% of the air to pass, but only 86.9% when the velocity was 158 c.c. per sec."-Textile Institute, Journal, v.22, no.10, Oct.1931, p.A506.

Chace, William G. An introductory study of textile microbiology--Chap.I. American Dyestuff Reporter, v.20, no.22, Nov.9, 1931, p.711-714. illus. (Published by Howes Publishing Co., 440 Fourth Ave., New York, N.Y.)

To be continued.

Cotton yarn tests made comparable by use of correction factors for regain. Textile World, v.80, no.23, Dec.5,1931, p.2184. tables. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

"Daily weight and break tests made by cotton spinners have little value as regards comparison of one with another unless they have been made under exactly the same conditions of temperature and humidity or have been corrected to these conditions. The accompanying article, reprinted through the courtesy of Saco-Lowell Shops...includes a table of correction factors which should facilitate the reduction of different tests to a common basis."

Eccles, John. The comparison of natural and artificial textile materials by the aid of the autographic loan extension diagram. Textile American, v.56, no.6, Dec.1931, p.13-16. diags. (Published at 440-442 Old South Bldg., Boston, Mass.)

Cotton yarn is used for comparison.



Fedorov, Vlad.S. Concerning the ripeness, fineness and strength of the cotton fiber. Tashkent, Izdatel'stov Nikki, 1930. 39p. illus.

In Russian.

Summary in English states that the "study examines the methods of determining the chief properties of the cotton fibre; its ripeness, fineness and strength, as thus far existing laboratory methods do not furnish any true technical determination."

Gapp, Karl. Das spezifische gewicht in der textil-industrie. Kunstseide, v.13, no.4, Apr. 1931, p. 140-142. (Published at Verlag H. Jentgen, Verlagsgesellschaft m.b.H., Berlin-Lichterfelde-W, Germany)

Specific weight in the textile industry.

"On the basis of a comparison of specific weights, values can be arrived at showing the covering power of different fibers, those of lower specific gravity exhibiting greater covering capacity. It is pointed out further that on the basis of these data, it is possible to obtain a more informative comparison of different types of rayons as regards their relative price values and utility."-Melliand Textile Monthly, v.3, no.9, Dec.1931, p.788.

Kauffmann, H. Über katalytische faserangriffe. Zeitschrift für Angewandte Chemie, v.44, no.23, June 1931, p.490. (Published at Verlag Chemie, G.m.b.H., Berlin W 10, Germany)

Cotton tendering catalysts.

"Under certain conditions many vat dyes on cotton injure the fibre on exposure to light. The photochemical process may be regarded as a sensitising of the cotton and imitated in a model test with uranium compounds. Cotton alone is only sensitive to ultra-violet light, but fabrics in which sodium uranate has been precipitated quickly become tender in visible light and give the oxycellulose reaction. Catalytic effects are observed chiefly in bleaching processes. Investigations of cotton fabrics impregnated with metal compounds treated with alkaline hydrogen peroxide solutions show that iron, copper, cobalt, and manganese may exhibit catalytic activity."-Textile Institute, Journal, v.22, no.10, Oct.1931, p.A503.

Kürschner, Karl, and Hoffer, Andreas. Eine neue quantitative cellulosebestimmung.I. Chemiker-Zeitung, v.53, no.17, Feb.28, 1931, p.161-163. (Published in Köthen in Anhalt, Germany)

Determination of cellulose.

"A new method is described that depends on the use of alcohol containing nitric acid. Treatment of impure cellulose with this reagent results in nitration of lignin and hydrolysis of hemicellulose and the reaction products go into solution, together with resin, tannin, fat, coloring matter, wax, and inorganic impurities...Experimental details are given. The process requires less time and gives a better product than the Cross and Bevan nitric acid process."-Melliand Textile Monthly, v.3, no.9, Dec.1931, p.789.

Laurent, L. Épreuves comparatives de résistance de files. Revue Textile, v.29, no.5, May 1931, p.601-607. (Published at 61, Avenue Jean-Jaurès, Paris, France)

Comparative strength tests of yarns.

"The practice of ignoring the highest and lowest values in determining the mean strength from a series of tests is discussed and the effect on the coefficient of regularity is shown in examples. The necessity for a large number of tests is emphasized and results are given for two years. It is pointed out that the proportion of tests giving values below the mean value is of great importance for comparisons of the resistance to breakage of different yarns. The precautions necessary when making comparative tests are outlined."-Textile Institute, Journal, v.22, no.10, Oct.1931, p.A504.

Morton, W.E. Effect of twist on yarn strength. The state of modern knowledge. Textile Weekly, v.8, no.193, Nov.13, 1931, p.285-286. diags. (Published at 49, Deansgate, Manchester, England)

Neale, S.M. Difficulties of the dyer. The effects of cottons of different growths. Textile Weekly, v.8, no.194, Nov.20, 1931, p.324. table. (Published at 49, Deansgate, Manchester, England)

Staple length and hair weight per centimeter are given for Sea Island, Sakel, Abassi, Egyptian Uppers, American Texas, American Memphis and Indian cottons. Relation of shade of dyed fabric to hair fineness is discussed.



Nickerson, Dorothy. A note on cotton fibre color. Textile Colorist, v.53, no.636, Dec. 1931, p.805-807. (Published at Woolworth Bldg., 233 Broadway, New York, N.Y.)

Describes some of the color measurements of cotton made in the Division of Cotton Marketing, U.S.Bureau of Agricultural Economics.

Nodder, C.R. The determination of solubility number: a micro-method for measuring the extent to which a cellulosic material has been chemically modified or degraded. Textile Institute, Journal, v.22, no.8, Aug.1931, p.T416-T424. (Published at 16 St.Mary's Parsonage, Manchester, England)

Cotton and linen were used for the experiments.

Also in Textile Manufacturer, v.57, no.683, Nov. 15,1931, p.415-416.

Oguri, Sutezo, and Terui, Sozi. Hygroscopic moisture of cellulose. II. Journal of the Society of Chemical Industry, Japan, Supplemental Binding, v.34, no.6, June 1931, p.182B-186B. charts. tables. diagr. (Published in Dept. of Applied Chemistry, Faculty of Engineering, Tokyo Imperial University, Tokyo, Japan)

Schraz, E.R. Organization of a mill control laboratory; personnel and equipment. Southern Textile Bulletin, v.41, no.17, Dec.24,1931, p.8-9. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte, N.C.)

Reprinted from "The Fog Horn."

Schulze, Bruno. Beitrag zur methodik der fasermessung. Papier-Fabrikant, v.29, no.1, Jan.4, 1931, p.4-5. illus. (Published by Otto Elsner Verlagsgesellschaft m.b.H., Oranienstr.140/142, Berlin S 42, Germany)

Fiber projection microscope.

"The disadvantages of the usual method of measuring the dimensions of fibres by means of the microscope are pointed out and a simple projection apparatus is described. Notes are given on the method of making measurements and on the preparation of the fibre samples. (Copied complete from The Instrument World, Sept.1931.)"-U.S.Institute for Textile Research Bulletin, v.1, no.9, Nov.1931, p.9.



Skinkle, John H. Elementary textile microscopy. New York, Howes publishing co., 1930. 144p. illus. tables.

The author, who is instructor in Textile Chemistry and Microscopy at Lowell Textile Institute, states that "In brief, the object of this book is to collect in one volume enough of the fundamentals as to apparatus, methods, and data on the fibers to introduce the reader to the large subject of Textile Microscopy."-Preface.

Titus, R.N., Staud, C.J., and Gray, H.L. Microscopy of the cotton cellulose fiber. Journal of Chemical Education, v.9, no.1, Jan.1932, p.114-121. (Published by Section of Chemical Education, American Chemical Society, Easton, Pa.)

Wainwright, D.B. The value of specifications to industry. Standardization of specifications has been a major factor in attaining industrial leadership. Commercial Standards Monthly, v.8, no.5, Nov.1931, p.135-137. (Published by Bureau of Standards, U. S. Department of Commerce, Washington, D.C.)

Abstract of paper presented at meeting of Committee D-13 of the American Society for Testing Materials, Oct.15,1931.

The need for standardization in the textile industry is pointed out.

### Technology of Manufacture

Bickel, Otto. Marktbeobachtung und absatzorganisation in der deutschen baumwollweberei. Nurnberg, Verlag der Hochschulbuchhandlung Kresche & co., 1931. 197p.

"The book, in spite of its somewhat indirect style, should well repay study, both for its systematic treatment of every aspect of the cotton weaving industry and for the technique of market analysis which it elaborates."-Textile Institute, Journal, v.22, no.10, Oct.1931, p.163.

Clibbens, Douglas A., and Geake, Arthur. The determination of total size or filling in cotton goods. Textile Institute, Journal, v.22, no.10, Oct.1931, p.T465-T474. tables. (Published at 16, St.Mary's Parsonage, Manchester, England)

"This paper contains a critical examination of

some methods for total size analysis in grey cotton, as a result of which a standard procedure is recommended."-Introduction.

Also in American Wool and Cotton Reporter, v.45, no.50, Dec.10, 1931, p.13-14, 21-24.

Cluett, Sanford L. Sanforizing process permits controlled preshrinkage of woven fabrics. Textile World, v.80, no.23, Dec.5, 1931, p.2176-2179. illus. diagsr. tables. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

This article is "abstracted from a paper read by C.H.Ramsey, president of Morrison Machine Co., Paterson, N.J., at the annual meeting of the Textile Division, American Society of Mechanical Engineers, held Dec.2, 1931, in the Engineers Club, New York."

The process of Sanforizing is described.

Also in Melliand Textile Monthly, v.3, no.9, Dec.1931, p.760-766. illus. tables.

Also in American Wool and Cotton Reporter, v.45, no.50, Dec.10, 1931, p.11-12, 19-21. illus. tables.

Cottrell, Ray. Processing stationery fabrics taxes skill of cotton finisher. Textile World, v.80, no.25, Dec.19, 1931, p.2352-2354. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

Cryer, N. Variation of spindle speed. Textile Manufacturer, v.57, no.683, Nov.15, 1931, p.387. table. (Published by Emmott and Co., Ltd., 65, King St., Manchester, England)

"Some tests of spindle speeds are described, and causes of variation, together with required characteristics of driving tapes."

Development of the preparatory processes. Textile Mercury and Argus, v.85, no.2227, Nov.20, 1931, p.551. illus. (Published at 41, Spring Gardens, Manchester, England)

Describes a new "High Draft" bale opener manufactured by Dobson and Barlow, Ltd.

Fargher, Robert George, and Lecomber, Leslie Vincent. The determination of starch in sized and finished cotton goods. Textile Institute, Journal, v.22, no.10, Oct.1931, p.T475-T487. tables. (Published

at 16, St. Mary's Parsonage, Manchester, England)

"The most promising line of attack seemed to lie in converting the starch into glucose by a suitable mixture of diastases, and so obviating interference by other carbohydrates (gums, mucilages, etc.)" The experiments are described.

Gibson, J.J. New ideas in sizing cotton yarns. *Textile Colorist*, v.53, no.636, Dec.1931, p.823, 850. (Published at Woolworth Bldg., 233 Broadway, New York, N.Y.)

Mentions the true function of a size, the relation of humidity to size, and the deliquescent properties of sizes.

Hall, A.J. De-sizing in preparation for dyeing.

Methods for removing starch from woven cotton and rayon fabrics. *American Dyestuff Reporter*, v.20, no.22, Nov.9, 1931, p.715-716, 735. diagr. tables. (Published by Howes Publishing Co., 440 Fourth Ave., New York, N.Y.)

"The efficiency of acid, alkaline, and enzyme de-sizing agents are considered in relation to the formulation of a practical de-sizing process. A convenient method for estimating the starch in sized cotton is described."-Editorial note.

Herrmann, Anton. The proper choice of loom speeds. *Melliand Textile Monthly*, v.3, no.9, Dec.1931, p.746-747. table. (Published by Textile Manufacturers Monthly, Woolworth Bldg., New York, N.Y.)

High speed spooling and warping. Minimum size mill that can profitably invest in this equipment--Benefit with hand knotters--Elasticity and broad-gauge spinning--Second-hand warpers, speed, etc. *American Wool and Cotton Reporter*, v.45, no.49, Dec.3, 1931, p.19-23, 25-27. (Published by Frank P. Bennett and Co., Inc., 530 Atlantic Ave., Boston, Mass.)

Report of meeting of the Spinners Section of the Southern Textile Association held November 20, 1931, at Spartanburg, S.C.

Also in *Cotton (Atlanta)*, v.95, no.14, Dec.1931, p.1326-1332, 1351.

Kind, W. Die wirkung der säuren in der bleiche. *Deutsche Färber-Zeitung*, v.67, no.13, Mar.29, 1931. p.195-196. (Published at Wittenberg [Bez Halle ,



Germany)

The effect of acids in bleaching.

"Data showing the decrease in strength of cotton yarns and fabrics produced by the action of acids are given."--Textile Institute, Journal, v.22, no.10, Oct.1931, p.A504.

Midgley, Eber. Technical terms in the textile trade. v.1. Cloth terms. Manchester, Emmott & co.,ltd., 1931. 326p. illus.

"A dictionary of yarns, cloths, makes, weaves and terms for spinners, manufacturers, merchants, distributors, etc."

Non-shrinkable finish of cotton goods. The Sanforizing process and the use of a continuous mechanical and adjustable slack feed to the finishing stenter. Textile Manufacturer, v.57, no.683, Nov.15,1931, p.409. (Published by Emmott and Co., Ltd., 65, King St., Manchester, England)

Rice, George. Troubles in dyeing of cotton chambrays. Textile Colorist, v.53, no.636, Dec.1931, p.845-846. (Published at Woolworth Bldg., 233 Broadway, New York, N.Y.)

Includes examples of experiences in dyeing raw cotton for use in manufacturing chambrays.

Sansone, Raffaele. Producing cotton cloths without weaving. Construction, embossing, printing and finishing. Textile American, v.56, no.6, Dec. 1931, p.50-52. illus. (Published at 440-442 Old South Bldg., Boston, Mass.)

Describes methods of producing "wadding cloth."

Schramek, W. Mercerisation of cotton piece-goods. Textile Recorder, v.49, no.584, Nov.18,1931,p.77. (Published by John Heywood, Ltd., 121, Deansgate, Manchester, England)

To be continued.

Schwarz, E.R. New torsion balance yarn numbering scale. Southern Textile Bulletin, v.41, no.15, Dec.10, 1931, p.10. (Published by Clark Publishing Co., 18 West 4th St., Charlotte, N.C.)

"There has been developed in the textile laboratories of Massachusetts Institute of Technology, Cambridge, Mass., in connection with work on a research problem assigned to that cooperating

laboratory by J.S. Institute, a torsion balance yarn numbering scale that for the first time provides correction for moisture regain."

Spinning 30s cotton with long draft made from seven-eighths or longer staple--various suggestions as to draft, breaking strength, rolls and speeds--cleaner and other waste--long draft on old frames. American Wool and Cotton Reporter, v.45, no.50, Dec.10, 1931, p.15-16, 18. (Published by Frank P. Bennett and Co., Inc., 530 Atlantic Ave., Boston, Mass.)

Part of discussion at meeting of Spinners' Division of Southern Textile Association held November 20, 1931, at Spartanburg, S.C.

Tschilikin, M. Chemie des entschlichtens. Melliand Textilberichte, v.12, no.1, Jan.1931, p.29-34. tables. (Published at Heidelberg, Germany)

Chemistry of desizing.

Summary in English in Textile Mercury and Argus, v.85, no.2222, Oct.16,1931, p.45. tables.

Wilkinson, William. Yarn tension in fabric production. Textile Mercury and Argus, v.85, no.2229, Dec.4, 1931, p.607. (Published at 41, Spring Gardens, Manchester, England)

#### Technology of Consumption

Frederick, L.T. Waste cotton rags make a base for a new laminated plastic. Plastics, v.7, no.11, Nov. 1931, p.607-608. (Published at 114 East 32d St., New York, N.Y.)

The method of making this material is described.

Martin, R.I. Cotton textiles for electrical insulation. Textile Institute, Journal, v.22, no.11, Nov.1931, p.P165-P179. (Published at 16, St.Mary's Parsonage, Manchester, England)

Bibliography: p.179.

"This paper is intended to provide those in the textile industry with a general idea of the extent to which cotton products are used as electrical insulating materials, details of the main purposes for which they are required, and information concerning the technical aspect of the properties and other features affecting the successful

employment of cotton goods for such purposes."

White, Noel D. Bagging silk hosiery for dyeing. Cotton, v.95, no.14, Dec.1931, p.1371-1375. illus. (Published by W.R.C.Smith Publishing Co., Atlanta, Ga.)

Describes different types of cotton bags used for the protection of silk hosiery while being dyed.

#### SEED AND SEED PRODUCTS

Boyle, James E. New Orleans and Memphis exchanges for cottonseed products. Cotton and Cotton Oil News, v.32, no.48, Nov.28,1931, p.11. table. (Published at 3116-18 Commerce St., Dallas, Tex.)

Meloy, G.S. Cotton seed. Cotton and Cotton Oil News, v.32, no.48, Nov.28, 1931, p.9, 12. (Published at 3116-18 Commerce St., Dallas, Tex.)

An address before the Southwide Conference on Cotton Seed, Birmingham, Ala., Nov. 5, 1931.

Natarajan, K.R. World-wide chemistry: India. Industrial and Engineering Chemistry, News ed., v.9, no.18, Sept.20,1931, p.287. (Published by the American Chemical Society, Easton, Pa.)

Describes paper made from cotton seed and biscuit made from cotton seed.

Reckless competition in seed buying. Cotton Oil Press, v.15, no.8, Dec.1931, p.19. (Published at Cotton Exchange Bldg., Memphis, Tenn.)

"Statement made by Hugh Humphreys on witness stand [Nov.19,1931] at Federal Trade hearing covers thirty-three years record of continuous unprofitable operations throughout cottonseed crushing industry."

Ward, A.L. The case of the cotton oil mills. Cotton Oil Press, v.15, no.8, Dec.1931, p.31-32. (Published at Cotton Exchange Bldg., Memphis, Tenn.)

Address at the Birmingham [Ala.] conference on cotton and cotton seed, Nov.5, 1931.



## LEGISLATION, REGULATION AND ADJUDICATION

Daniel, Frank. Cottonseed control; regulation by Federal and state governments suggested by Land bank president. Chemicals, v.36, no.12, Sept.21, 1931, p.7-8. (Published at 51 Vesey St., New York, N.Y.)  
From United States Daily, Aug.18,1931.

Urges limiting use of seed for planting purposes through government control of seed.

Dickson, Harris. The midnight gesture. King Cotton becomes an outlaw in the sovereign state of Louisiana; but can they keep him down? Country Home, v.55, no.12, Dec.1931, p.10-11, 47, 49-51. (Published at 250 Park Ave., New York, N.Y.)

Details concerning the passage of the no-cotton bill in Louisiana and results that may be expected.

Tanganyika. Laws, statutes, etc. The cotton ordinance (Cap.80 of the Laws). Dar es Salaam, Govt. printer, 1931. 13p.

These "Cotton rules, 1931" cover production, ginning and marketing of cotton in Tanganyika.

What is the law effective in Texas concerning cottonseed? Cotton Ginners Journal, v.3, no.3, Dec.1931, p.10, 14. (Published at Dallas, Tex.)

The provisions of the law are discussed.

## MISCELLANEOUS--GENERAL

Cotton industry. Operations of Board. Statistical information to date. Central Queensland Herald, v.2, no.98, Nov.12,1931, p.47. (Published at Rockhampton, Queensland)

"Three hundred tons of cotton seed cake were exported from Queensland in October, 1,234,916 lbs. of cotton seed have been distributed for planting, 15,128,855 lbs. of seed cotton received at ginneries, and 4,872,571 lbs. of lint ginned, while the total output of cotton seed for the season is 9,743,639 lbs. These are features of reports to the recent meeting of the Queensland Cotton Board."

Cotton-textile institute, inc. Fifth annual report.  
[New York, 1931] 48p.

Based upon the address of George A. Sloan, president, at the annual meeting of members.

Gambia, Africa. Dept. of agriculture. Annual report for the year ended March 31, 1931. London, 1931. 51p.

Cotton: p.13, 39-40.

International federation of master cotton spinners' and manufacturers' associations. Minutes of the International cotton committee meeting, held at... Wiesbaden, on Wednesday, October 14th, 1931... International Cotton Bulletin, v.10, no.37, Oct.-Nov. 1931, p.1-7. (Published by International Federation of Master Cotton Spinners' and Manufacturers' Associations, Manchester, England)

Contains resolutions on cotton propaganda and cotton baling.

Manchester cotton association limited. Annual meeting of members. Cotton, v.37, no.1795, Nov.28, 1931, p.7, 9-11. (Published at Ship Canal House, King St., Manchester, England)

Proceedings, election of officers, and committees appointed.

North Carolina agricultural outlook for 1932. North Carolina Farm Business, v.2, no.11, Nov. 1931. (Published by the Department of Agricultural Economics, North Carolina State College, Raleigh, N.C.)

The cotton outlook for 1932: p.3-4.

North Carolina association meets at Pinehurst. Southern Textile Bulletin, v.41, no.15, Dec.10, 1931, p.6, 8-9. (Published by Clark Publishing Co., 18 West 4th St., Charlotte, N.C.)

Meeting of Cotton Manufacturers Association of North Carolina, Dec.4-5, 1931, at Pinehurst, N.C.

Resolutions were adopted protesting the adoption by the New York Cotton Exchange of a measure to allow full premiums on 15/16 and 1 inch cotton delivered on contract.

Also in Textile World, v.80, no.24, Dec.12, 1931, p.2269.

Pearse, Norman S. Visit to the U. S. cotton belt, 1931. International Cotton Bulletin, v.10, no.37, Oct.-Nov.1931, p.61-66, 69-71. (Published by International Federation of Master Cotton Spinners' and Manufacturers' Associations, Manchester, England)

Submitted to the International Cotton Committee, Wiesbaden, October 14,1931.

Describes acreage and growth, staples, grades, picking, cost of production, acreage reduction schemes, equalization fee and debenture plan, and the experimental ginning station at Stoneville, Miss.

Queensland.Dept. of agriculture and stock. Annual report for the year 1930-31. Brisbane,1931. 174p.

Report of the cotton specialist: p.29-32.

Read, Margaret. The Indian peasant uprooted. A study of the human machine. London, Longmans, Green and co., 1931. 256p. illus.

Includes descriptions of conditions in cotton and jute mills and cotton gins.

Rotterdam cotton association. Report...presented at the annual general meeting of the members held November 12th, 1931. [Rotterdam,1931] 14p. table.

Table shows arrivals, stock, and deliveries of cotton at Rotterdam during the season 1 August 1930-31 July 1931. A list of the members is included.

Skinner's cotton trade directory of the world, 1931-32. London, New York, etc., Thomas Skinner & co., 1931. 1252p.

Contains information relating to the cotton industry and trade of every country in the world.

U.S.Dept. of agriculture. Report of the secretary of agriculture, 1931. Washington, Govt.print.off., 1931. 102p.

Cotton situation: p.25-27.

U.S.Dept. of agriculture. Bureau of agricultural economics. Annual report of the chief. Washington, 1931. 69p.

Partial contents: Cotton, peanut and hog farming



in Georgia and Alabama: p.7-9; Organization and management of cotton farms: p.8; Cost of producing staple crops (including cotton): p.11-12; Cotton reports (crop estimates): p.13; Division of cotton marketing: p.17-23; The world cotton situation: p.49.

U.S.Dept. of agriculture. Bureau of chemistry and soils. Report of the chief...1931. Washington, 1931. 78p.

Farm fabrics: p.16. Mentions tests on hay caps, and on canvas, including waterproofing tests.

Cottonseed meal: p.23. Experiments as to nutritive value are noted.

Cotton soil-fertility studies: p.46.

Cotton root-rot investigations: p.51.

U.S.Dept. of agriculture. Bureau of plant industry. Report of the chief...1931. Washington, 1931. 38p.

Cotton: p.18-20. Cooperative cotton production, metaxenia experiments, and root rot are described.

U.S.Dept. of commerce. Bureau of foreign and domestic commerce. Annual report of the director... to the secretary of commerce for the fiscal year ended June 30, 1931. 51p. tables. Washington, 1931.

Textile Division report: p.38.

U.S.Dept. of commerce. Bureau of standards. Annual report of the director...June 30, 1931. Washington, Govt.print.off., 1931. 50p. tables. (Misc.pub. No.131)

Mentions studies of cotton cloths for use in parachutes: p.25.

Value of textile research stressed at annual meeting of A.A.T.C.C. Textile World, v.80. no.24, Dec.12, 1931, p.2266-2268. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

Proceedings of the eleventh annual meeting of the American Association of Textile Chemists and Colorists at Boston, Mass., Dec.4-5, 1931.

Brief abstracts are given of the following papers: The mechanism of the dyeing process, by Dr. Robert E. Rose; Measurement of cotton fiber quality in relation

to standardization and utilization, by Miss Dorothy Nickerson; Some general considerations on the application of electrometric measurements, by Dr.W.N. Greer; Basic mordants and lakes, by Prof.Wilder D. Bancroft; Microscope and fundamental textile research, by Prof.E.R.Schwarz.

Also in Fibre and Fabric, v.84, no.2445, Dec.12, 1931, p.6-12.

West Indies (British) Imperial Department of Agriculture. Report of St.Kitts-Nevis, 1930-31. Barbados, 1931. 29p.

Includes report on cotton.

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